PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or 27513	agent's file reference	FOR FURTHER ACTION	(Form PC' below.	ation of Transmittal of International Search Report I/ISA/220) as well as, where applicable, item 5				
International application No. PCT/IL04/00406		International filing date (day/month/year) 12 May 2004 (12.05.2004)		(Earliest) Priority Date (day/month/year) 12 May 2003 (12.05.2003)				
Applicant RAMOT AT TEL AVIV UNIVERSITY LTD.								
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This international search report consists of a total of sheets. It is also accompanied by a copy of each prior art document cited in this report.								
Basis of the Report a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.								
b. W	Authority (Rule 23.1(b)).			the international application furnished to this the international application, the international				
	contained in the internation	nal application in written form.	eadable for	rm.				
	filed together with the international application in computer readable form. furnished subsequently to this Authority in written form.							
		this Authority in computer readable	form.					
the statement that the subsequently furnished written sequence listing does not go beyond the disclosure international application as filed has been furnished.								
	the statement that the info	rmation recorded in computer read	ible form i	s identical to the written sequence listing has				
2.	Certain claims were four	nd unsearchable (See Box I).						
3.	Unity of invention is lack	king (See Box II).						
4. With re	egard to the title,							
	the text is approved as sul		nws.					
	the text has been establish	ned by this Authority to read as follo	J 113.					
5. With regard to the abstract,								
	the text is approved as su	bmitted by the applicant.						
	the text has been establish may, within one month frauthority.	ned, according to Rule 38.2(b), by com the date of mailing of this inter	this Author national se	rity as it appears in Box III. The applicant earch report, submit comments to this				
6. The fi								
	as suggested by the appli	cant.		None of the figures				
	because the applicant fail							
	because this figure better	characterizes the invention.		<u> </u>				

Form PCT/ISA/210 (first sheet) (July 1998)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/IL04/00406

Box III	TEXT OF THE	ABSTRACT	(Continuation	of Item	5 of th	e first	sheet)
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The technical features mentioned in the abstract do not include a reference sign between parentheses (PCT Rule 8.1(d)).

NEW ABSTRACT

A high-efficiency, small-scale, combined heat and power, concentrating solar energy system (200), designed specifically for residential and other relatively low-power applications, rendering it cost-effective and economically viable. Two-axis tracking of a dish-like reflector (10) of between 1 and 2 meters in aperture ensures a very high concentrating ratio of between 200 and 8-suns or even higher. In consequence very high coolant outlet temperatures, of 120-180 degrees C may be reached at the outlet of the collector coolant, which may be oil, gas, or pressurized water. The high coolant temperatures are advantageous because they may be used for air conditioning. The high concentration is advantageous because the efficiency of the photo voltaic cells is improved with higher concentration. The overall efficiency is greater than 60%. Additionally, a simple but accurate drive, designed as a radio-dial drive (14), with substantially zero backlash, and substantially zero drive, is provided for driving the concentrating solar energy system. Preferably, two radio-dial drives are employed and tracking is performed along two axes, of an azimuth-elevation mount, a polar mount, or a cross mount.

Form PCT/ISA/210 (continuation of first sheet(2)) (July 1998)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/IL04/00406

A. CLASSIFICATION OF SUBJECT MATTER							
IPC(7) : F24J 2/00							
US CL	: 126/569	tional classification and IPC					
According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED							
	cumentation searched (classification system followed b	y classification symbols)					
U.S. : 12							
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched							
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EAST							
C. DOC	UMENTS CONSIDERED TO BE RELEVANT						
Category *	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.				
Y	US 4,192,583 A (HORTON) 11 March 1980 (11.02.	1980), column 8 lines 12-59.	1-69				
Y	US 4,440,150 A (KAEHLER) 03 April 1984 (03.04	1-69					
Y	US 5,148,012 A (CARTER) 15 September 1992 (15	.09.1992), column 4 lines 11-55.	1-69				
		- !					
Further documents are listed in the continuation of Box C. See patent family annex.							
*	Special categories of cited documents:	"T" later document published after the in priority date and not in conflict with	the application but cited to				
"A" documen	nt defining the general state of the art which is not considered to	understand the principle or theory u					
1	rticular relevance pplication or patent published on or after the international filing	"X" document of particular relevance; the considered novel or cannot be consisted when the document is taken along the consisted when the document is taken along the consistency of the	dered to involve an inventive				
"I " docume	nt which may throw doubts on priority claim(s) or which is cited lish the publication date of another citation or other special reason ified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art					
"O" docume	nt referring to an oral disclosure, use, exhibition or other means		•				
"P" document published prior to the international filing date but later than the		*&" document member of the same pater					
neiority	date claimed actual completion of the international search	Date of mailing of the international second	JAN 2005				
27 October 2004 (27.10.2004)							
Name and n	nailing address of the ISA/US ail Stop PCT, Attn: ISA/US						
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